

In the claims:

Please substitute the following full listing of claims for the claims as originally filed or most recently amended.

1. (Currently Amended) A method of optimizing performance of a mobile terminal comprising a radio communication module, a central computing unit and a plurality of data processing software components designed to optimize operational performance of said mobile terminal by compensating degradation of communication channel properties with motion of said mobile terminal, the method comprising the steps of:

providing traveling speed information from ~~a source~~ one or more sources external to said mobile terminal, said traveling speed information approximately corresponding to traveling speed of the mobile terminal~~[[:]~~, said sources external to said mobile terminal including an interface for user input or confirmation of input from other sources and a source communicating over a wired or wireless communication link;

capturing said traveling speed information in the mobile terminal;

distributing the captured traveling speed to each of the data processing software components, said data processing software components including cell search software and channel response estimation software; and

controlling communication channel properties by computing communication conditions in accordance with said traveling speed captured in said capturing step.

2. (Previously Presented) The method according to claim 1, wherein the captured traveling speed is distributed according to a nature of processing of each data processing software component and value of the traveling speed.

3. (Canceled)

4. (Original) The method according to claim 1, wherein the traveling speed is detected automatically in real time by the mobile terminal.

5. (Currently Amended) A mobile terminal comprising:  
a radio communication module,  
a central computing unit,  
a plurality of data processing software components including cell search software and channel response estimation software, each of said data processing software components being designed to optimize a respective aspect of operational performance of said mobile terminal,  
a communication interface designed to capture traveling speed information approximating a traveling speed of the mobile terminal, said traveling speed information being provided from an external source, said communication interface including a speed capture module capable of receiving said traveling speed information through a wired or wireless link and receiving user input or confirmation of traveling speed information; and  
a command module designed to distribute the captured traveling speed to each of the data processing software components whereby each of said data processing software components compensates degradation of a communication channel due to speed of said mobile terminal.

6. (Canceled)

7. (Original) The mobile terminal according to claim 5,  
further comprising  
    means for transmitting the captured traveling speed  
to a base station.